

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
ES 2171758T3	December 19, 1996	1996EP-0944004	
ES 2171758T3		EP 868125	Based on
WO 9722266A1	December 19, 1996	1996WO-EP05695	
DE 19547356A1	December 19, 1995	1995DE-1047356	
AU 9713747A	December 19, 1996	1997AU-0013747	
AU 9713747A		WO 9722266	Based on
ZA 9610643A	December 18, 1996	1996ZA-0010643	
NO 9802722A	December 19, 1996	1996WO-EP05695	
NO 9802722A	June 12, 1998	1998NO-0002722	
EP 868125A1	December 19, 1996	1996EP-0944004	
EP 868125A1	December 19, 1996	1996WO-EP05695	
EP 868125A1		WO 9722266	Based on
BR 9612138A	December 19, 1996	1996BR-0012138	
BR 9612138A	December 19, 1996	1996WO-EP05695	
BR 9612138A		WO 9722266	Based on
JP2000506372W	December 19, 1996	1996WO-EP05695	
JP2000506372W	December 19, 1996	1997JP-0522507	
JP2000506372W		WO 9722266	Based on
MX 9804933A1	June 18, 1998	1998MX-0004933	
US 6174442B1	December 19, 1996	1996WO-EP05695	
US 6174442B1	June 2, 1998	1998US-0077944	
US 6174442B1		WO 9722266	Based on
KR2000064462A	December 19, 1996	1996WO-EP05695	
KR2000064462A	June 18, 1998	1998KR-0704632	
EP 868125B1	December 19, 1996	1996EP-0944004	
EP 868125B1	December 19, 1996	1996WO-EP05695	
EP 868125B1		WO 9722266	Based on
DE 59608089G	December 19, 1996	1996DE-0508089	
DE 59608089G	December 19, 1996	1996EP-0944004	
DE 59608089G	December 19, 1996	1996WO-EP05695	
DE 59608089G		EP 868125	Based on
DE 59608089G		WO 9722266	Based on
TW 457090A	December 10, 1996	1996TW-0115264	

INT-CL (IPC): A23 K 1/16; A23 L 0/00; A23 L 1/015; A23 L 1/03; A23 L 1/304; A61 K 33/26; A61 K 47/12; A61 K 47/26; B01 D 15/00; B01 J 0/00; B01 J 20/06; B01 J 20/22; B01 J 20/24; C02 F 1/28

ABSTRACTED-PUB-NO: EP 868125B  
BASIC-ABSTRACT:

An adsorbent (A) for phosphates from aqueous media contains polynuclear beta -iron hydroxide stabilised by carbohydrate and/or humic acid.

Also claimed is preparation of (A) by (i) mixing an aqueous base solution with an aqueous chloride ion-containing Fe(III) salt solution to give a suspension of pH 3-10; (ii) allowing the suspension to stand, washing the precipitate with water to remove chloride ions and suspending it (still moist) in water to form a suspension with Fe content up to 6 wt.%; and (iii) adding sufficient carbohydrate and/or humic acid to give a maximum solids content of up to 40 wt.% Fe.

USE - (A) adsorbs inorganic or nutrient-bound phosphates from aqueous solutions, preferably from bodily (especially gastrointestinal) fluids. (A) is used to remove phosphates from foodstuffs, and as a food additive. (claimed). (A) is taken orally. It is used for the prophylaxis of hyperphosphataemia, especially in renal insufficiency.

ADVANTAGE - (A) has high phosphate binding capacity with low Fe release. (A) does not cause the hypercalcaemia associated with phosphate-binding calcium compounds, or the dialysis-encephalopathy syndrome associated with aluminium salts.  
ABSTRACTED-PUB-NO:

US 6174442B

EQUIVALENT-ABSTRACTS:

An adsorbent (A) for phosphates from aqueous media contains polynuclear beta -iron hydroxide stabilised by carbohydrate and/or humic acid.

Also claimed is preparation of (A) by (i) mixing an aqueous base solution with an aqueous chloride ion-containing Fe(III) salt solution to give a suspension of pH 3-10; (ii) allowing the suspension to stand, washing the precipitate with water to remove chloride ions and suspending it (still moist) in water to form a suspension with Fe content up to 6 wt.%; and (iii) adding sufficient carbohydrate and/or humic acid to give a maximum solids content of up to 40 wt.% Fe.

USE - (A) adsorbs inorganic or nutrient-bound phosphates from aqueous solutions, preferably from bodily (especially gastrointestinal) fluids. (A) is used to remove phosphates from foodstuffs, and as a food additive. (claimed). (A) is taken orally. It is used for the prophylaxis of hyperphosphataemia, especially in renal insufficiency.

ADVANTAGE - (A) has high phosphate binding capacity with low Fe release. (A) does not cause the hypercalcaemia associated with phosphate-binding calcium compounds, or the dialysis-encephalopathy syndrome associated with aluminium salts.

An adsorbent (A) for phosphates from aqueous media contains polynuclear beta -iron hydroxide stabilised by carbohydrate and/or humic acid.

Also claimed is preparation of (A) by (i) mixing an aqueous base solution with an aqueous chloride ion-containing Fe(III) salt solution to give a suspension of pH 3-10; (ii) allowing the suspension to stand, washing the precipitate with water to remove chloride ions and suspending it (still moist) in water to form a suspension with Fe content up to 6 wt.%; and (iii) adding sufficient carbohydrate and/or humic acid to give a maximum solids content of up to 40 wt.% Fe.

USE - (A) adsorbs inorganic or nutrient-bound phosphates from aqueous solutions, preferably from bodily (especially gastrointestinal) fluids. (A) is used to remove phosphates from foodstuffs, and as a food additive. (claimed). (A) is taken orally. It is used for the prophylaxis of hyperphosphataemia, especially in renal insufficiency.

ADVANTAGE - (A) has high phosphate binding capacity with low Fe release. (A) does not cause the hypercalcaemia associated with phosphate-binding calcium compounds, or the dialysis-encephalopathy syndrome associated with aluminium salts.

WO 9722266A

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PHOSPHATE ADSORB AQUEOUS FLUID USEFUL RENAL INSUFFICIENCY COMPRISE POLYNUCLEAR BETA IRON HYDROXIDE STABILISED CARBOHYDRATE HUMIC ACID

DERWENT-CLASS: B04 B06 D13

CPI-CODES: B04-C02; B05-A03A; B14-N10; D03-H01T2;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*

Fragmentation Code

M423 M431 M782 M903 P723 Q233 V400 V797

Chemical Indexing M2 \*02\*

Fragmentation Code

A426 A940 C101 C108 C550 C730 C801 C802 C804 C805

C807 M411 M431 M782 M903 M904 P723 Q220

Specific Compounds

08012M  
Registry Numbers  
1507U

Chemical Indexing M6 \*03\*  
Fragmentation Code  
M903 P723 Q220 R301

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1507U

SECONDARY-ACC-NO:  
CPI Secondary Accession Numbers: C1997-113153

**WEST****End of Result Set**

Generate Collection

Print

L2: Entry 2 of 2

File: DWPI

Jun 29, 1987

DERWENT-ACC-NO: 1987-218330

DERWENT-WEEK: 198731

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Phosphonium ion fixing agent, esp. phosphonium ion in body fluid - contg. carbonate or organic acid cpd. of rare-earth element, and used for treating chronic kidney deficiency

PATENT-ASSIGNEE:

ASSIGNEE

ASAHI CHEM IND CO LTD

CODE

ASAH

PRIORITY-DATA: 1985JP-0284212 (December 19, 1985)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 62145024 A	June 29, 1987		006	
JP 94000705 B2	January 5, 1994		005	A61K033/24

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 62145024A	December 19, 1985	1985JP-0284212	
JP 94000705B2	December 19, 1985	1985JP-0284212	
JP 94000705B2		JP 62145024	Based on

INT-CL (IPC): A61K 31/19; A61K 33/24; C02F 1/58

ABSTRACTED-PUB-NO: JP 62145024A

BASIC-ABSTRACT:

Fixing agent for phosphonium ion comprises carbonate or organic acid cpd. of rare-earth element. Pref. fixing agent has nearly 100% of phosphonium ion-fixing and removing power at pH over 6. Fixing and removing power does not change even in the presence of other anion e.g. chloride- or bicarbonate-ion and phosphonium ion is fixed and removed off selectively. Phosphonium ion-removing efficiency is great and amt. for use may be reduced.

USE/ADVANTAGE - New fixing agent for phosphonium ion is used esp. for phosphonium ion in living body liquor. Hyperphosphatemia is yielded from hypoparathyroidism of phosphorus in patient of chronic nephritic deficiency. Fixing agent reacts with phosphonium ion selectively and irreversibly to fix. So phosphonium ion fixing power per unit wt. of phosphonium ion is more than five times compared with conventional adsorbing method.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PHOSPHONIUM ION FIX AGENT PHOSPHONIUM ION BODY FLUID CONTAIN CARBONATE ORGANIC ACID COMPOUND RARE EARTH ELEMENT TREAT CHRONIC KIDNEY DEFICIENT

DERWENT-CLASS: B05

CPI-CODES: B05-A03; B05-B02A3; B10-C02; B12-J08;

**WEST****End of Result Set**

Generate Collection

Print

L4: Entry 1 of 1

File: DWPI

Oct 18, 1977

DERWENT-ACC-NO: 1978-58210A

DERWENT-WEEK: 197832

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Modified concrete mix - contg. addition of sodium hydroxide and calcium sulphate to intensify the hardening process

INVENTOR: BIRYUKOV, A I; VOROBEOV, Y U L ; ZHILTSOV, V P

PATENT-ASSIGNEE:

ASSIGNEE

KHARK HOUSE BUILD

CODE

KHHOR

PRIORITY-DATA: 1971SU-1678568 (May 21, 1971)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

SU 414849 A

October 18, 1977

000

INT-CL (IPC): C04B 13/22

ABSTRACTED-PUB-NO: SU 414849A

BASIC-ABSTRACT:

Addition of 0.5-1.5 wt.% NaOH (I) and 1-10 wt.% CaSO<sub>4</sub> (II) (in the form of natural anhydride) to the concrete mix intensifies the hardening process. Naturally occurring gypsum may be used as (II). The mix is prepd. by adding a previously prepd. mixt. of Portland cement and (II), in the dry state, to a concrete mixer and then adding NaOH dissolved in water and mixing until homogeneous.

Addition of (I) and (II) reduces the time needed for steaming treatment of the articles by 25-30% and consumption of cement by 15%.

TITLE-TERMS: MODIFIED CONCRETE MIX CONTAIN ADD SODIUM HYDROXIDE CALCIUM SULPHATE  
INTENSIFY HARDEN PROCESS

DERWENT-CLASS: E33 E34 L02

CPI-CODES: E33-A; E34-D02; L02-D06;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

A111 A940 C730 C101 C108 C802 C807 C805 C804 C801

C550 Q453 M782 R021 R022 R023 R024 M411 M902

Chemical Indexing M3 \*02\*

Fragmentation Code

A940 C730 C108 C316 C803 C802 C805 C804 C801 C540

A220 Q453 M782 R032 R035 R036 R021 R022 R023 R024

M411 M902

**WEST****End of Result Set**

Generate Collection

Print

L7: Entry 2 of 2

File: DWPI

Sep 16, 2002

DERWENT-ACC-NO: 1997-350652

DERWENT-WEEK: 200270

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Phosphate adsorbent for aqueous fluid, useful in renal insufficiency - comprises polynuclear beta-iron hydroxide stabilised with carbohydrate and/or humic acid

INVENTOR: GEISSER, P; PHILIPP, E

PATENT-ASSIGNEE:

ASSIGNEE

CODE

VIFOR INT AG

VIFON

PRIORITY-DATA: 1995DE-1047356 (December 19, 1995)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
ES 2171758 T3	September 16, 2002		000	A23L001/304
<u>WO 9722266 A1</u>	June 26, 1997	G	028	A23L001/304
DE 19547356 A1	June 26, 1997		014	B01J020/06
AU 9713747 A	July 14, 1997		000	A23L001/304
ZA 9610643 A	September 23, 1997		023	B01J000/00
NO 9802722 A	August 18, 1998		000	A23L000/00
EP 868125 A1	October 7, 1998	G	000	A23L001/304
BR 9612138 A	July 13, 1999		000	A23L001/304
JP 2000506372 W	May 30, 2000		021	A23L001/304
MX 9804933 A1	April 1, 1999		000	A23L001/304
US 6174442 B1	January 16, 2001		000	B01D015/00
KR 2000064462 A	November 6, 2000		000	A23L001/304
EP 868125 B1	October 31, 2001	G	000	A23L001/304
DE 59608089 G	December 6, 2001		000	A23L001/304
TW 457090 A	October 1, 2001		000	A61K047/12

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU  
IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE  
SG SI SK TJ TM TR TT UA UG US UZ VN AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC  
MW NL OA PT SD SE SZ UG AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT RO  
SE SI AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT RO SE SI

APPLICATION-DATA: